

23. A nucleotide according to claim 21 wherein said electron transfer moiety is attached to the ribose via a linker at the 2' position.

24. A nucleotide according to claim 21 wherein said electron transfer moiety is a transition metal complex.

25. A nucleotide according to claim 24 wherein said transition metal complex comprises ruthenium.

26. A nucleotide according to claim 24 wherein said transition metal complex comprises iron.

27. A method of making a nucleic acid comprising a covalently attached electron transfer moiety, said method comprising:

- a) providing a modified nucleotide comprising a covalently attached electron transfer moiety;
- b) converting said modified nucleotide into a modified nucleotide triphosphate; and
- c) incorporating said modified nucleotide triphosphate in a synthetic reaction to form a nucleic acid with a covalently attached electron transfer moiety.

28. A method according to claim 27 wherein said electron transfer moiety is attached to the ribose of said nucleotide.